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WERS TRANSCEIVER

1. The attached schematic diagram and photographs pertain to a WERS transceiver which was constructed by the Connecticut Wing Communications Officer. It is particularly noteworthy that the set was built entirely from the so-called "junk" which has been distributed to CAP by the Army Air Forces.

2. The transceiver case was made from a Signal Corps coil unit case. The main tuning inductance and choke coils were wound with wire taken from Coil Unit C-185. Resistors and condensers in the values required were not found amongst the shipments in all instances but by making series, parallel, or series-parallel connections the right values were obtained. Microphone Amplifier BC-216-A supplied all nuts and screws, some resistors, microphone and headphone jacks, and aluminum for making supports and brackets. All other items such as the tuning dial, variable condenser, tube sockets, knobs, microphone transformer, and hookup wire were found amongst the Army equipment.

3. Connecticut obtains power for their transceiver by tapping into the automobile radio receiver. Obviously, the source of power will be determined by the means available.

4. A wiring diagram is not included because it is felt that the schematic diagram will be an adequate aid in adapting this circuit to whatever parts may be on hand. It will be necessary to make local improvisations in wiring due to the components which are available.

5. Those who desire more detailed information may contact the Connecticut Wing Communications Officer direct whose address is: Capt. Frank B. Hales, Civil Air Patrol, 56 Woodside Avenue, Waterbury 61, Connecticut.

By order of Colonel JOHNSON:

WILLIAM R. WILKINSON,
Captain, Air Corps,
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DISTRIBUTION:
A (Wing Communications Officers)

3 Incls.
Incl 1. Schematic Diagram.
Incl 2. Photograph of Complete Unit.
Incl 3. Photograph of Interior of Unit.